

STEPHANIE W. HAAS

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EDUCATION

- 1989 PhD University of Pittsburgh, Pittsburgh, Pennsylvania. Information Science.
Dissertation: *Case Hierarchy Based Representations and Procedures for Domain Analysis and the Construction and Porting of Natural Language Interfaces*. 168 pages.
- 1982 MALS Wesleyan University, Middletown, Connecticut.
Master of Arts in Liberal Studies in Arts and Literature.
- 1977 BS University of Connecticut, Storrs, Connecticut. School of Education.
Major: Music; Minor: Education.

PROFESSIONAL EXPERIENCE

- 1989-present Professor, School of Information and Library Science, University of North Carolina at Chapel Hill. (Assistant Professor, 1989-1995, Associate Professor, 1995-2006, McColl Professor 2005- 2007, Professor, 2006-present.)
Coordinator of Master of Science in Information Science Program, 2011 – present.
Courses include: Systems Analysis, Applications of Natural Language Processing, Database I.
- 1985-1989 Research Assistant, The University of Pittsburgh, 1985-1989. “Natural Language Parser for Information Retrieval”, Douglas P. Metzler, PI.
Teaching Fellow, The University of Pittsburgh, 1986-1989.
Graduate Student Assistant, The University of Pittsburgh 1985.
- 1978-1984 Elementary and Middle School Music Teacher, Connecticut and New York.

HONORS

- 2012 Edward G. Holley for the Good of the Order Award, School of Information and Library Science, University of North Carolina at Chapel Hill
- 2012 Deborah Barreau Award for Teaching Excellence, School of Information and Library Science, University of North Carolina at Chapel Hill
- 2006 Outstanding Teaching Award, School of Information and Library Science, University of North Carolina at Chapel Hill.
- 2005 Francis Carroll McColl Term Professor, 2005 – 2007.
- 2005 Research Fellow, Graduate School of Library and Information Science, University of Illinois at Urbana-Champaign, August 16, 2005 – August 15, 2007.

- 2002 Best Overall Poster Award for "ICD-9-CM Clusters for Emergency Medicine" (with Travers, Waller & Tintinalli). Seventh Annual Emergency Medicine Research Forum, Department of Emergency Medicine, UNC-CH, April 17, 2002.
- 1997 Outstanding Teaching Award, School of Information and Library Science, University of North Carolina at Chapel Hill.
- 1996 Outstanding Information Science Teacher of the Year, American Society for Information Science.
- 1989 Best Paper of ACM SIGIR '89 (one of six awards, with Metzler).
- 1988 American Society for Information Science/Institute for Scientific Information Doctoral Dissertation Scholarship

RESEARCH GRANTS AND CONTRACTS RECEIVED

National Library of Medicine, "Adapting Natural Language Processing Tools for Biosurveillance"

Principal Investigator: Debbie Travers

Total \$450,000, Haas, 10% effort (year 1), 15% effort (year 2)

Period: October 2009 – February 2013.

Centers for Disease Control and Prevention, "Modeling Communication Links Among Public Health Emergency Preparedness Officials in North Carolina using Social Network Analysis: A Pilot Study"

Principal Investigator: Stephanie W. Haas

Total: \$19,723

Period: May 11, 2009 – January 31, 2010; carryover funded for April 2012 – August 2012.

Centers for Disease Control and Prevention, "Public Health Surveillance Systems"

Principal Investigators: Anna Waller and Pia MacDonald

Total: \$1,299,095 (direct only) (Haas, 10% effort)

Period: September, 2008 - August 2013

University of North Carolina at Chapel Hill School of Public Health Gillings Innovation Lab, "Innovative Disease Surveillance Methods"

Principal Investigator: David Richardson

Total: \$564,592, (Haas, 10% effort)

Period: September, 2008 – August 2010

University of North Carolina at Chapel Hill Research Council, "Temporal Event Analysis of Emergency Department Chief Complaint and Triage Note"

Principal Investigator: Stephanie W. Haas

Total: \$4,860

Period: December 1, 2007 – November 30, 2009

National Library of Medicine, "Chief Complaint Symposium"

Principal Investigator: Stephanie W. Haas

Total: \$17,591 (Haas, 10% effort)

Period: September 30, 2005 – September 29, 2006

Bureau of Labor Statistics, "Improving BLS Website Functionality and Usability" (research contract)

Principal Investigator: Gary Marchionini; Co-PI: Stephanie W. Haas

Total: \$50,000 (Haas, 1 month summer salary)

Period: September 2004 – August 2005

Bureau of Labor Statistics, "Clustering Techniques and Tools for Improving BLS Website Usability." (research contract)

Principal Investigator: Gary Marchionini; Co-PI: Stephanie W. Haas

Total: \$50,000 (Haas, 1 month summer salary)

Period: September 2003 – August 2004

U. S. Census Bureau, "Discovering Organizational Structure in the Census Website" (research contract)

Principal Investigator: Gary Marchionini; Co-PI: Stephanie W. Haas

Total: \$50,000 (Haas, 1 month summer salary)

Period: August 2003 – September 2004

Bureau of Labor Statistics, "Improving Indexes and other Content Lists of the Bureau of Labor Statistics Website." (research contract)

Principal Investigator: Gary Marchionini; Co-PI: Stephanie W. Haas

Total: \$50,000 (Haas, 1 month summer salary)

Period: September 2002 – August 2003

North Carolina Division of Public Health, "Developing a Controlled Vocabulary for Emergency Department Chief Complaints Related to Bioterrorism" (part of The North Carolina Bioterrorism and Emerging Infections Prevention System (NC BEIPS) and the North Carolina Emergency Department Database (NCEDD))

Principal Investigator: Anna Waller

Total: \$2,000,000 (Haas, 15% effort)

Period: August 2002 – July 2005

National Science Foundation, "Integration of Data and Interfaces to Enhance Human Understanding of Government Statistics: Toward the National Statistical Knowledge Network"

Principal Investigator: Gary Marchionini; Co-PI: Stephanie W. Haas

Total 1,300,000 (Haas, 1 month summer salary)

Period: July, 2002 – June, 2005

Bureau of Labor Statistics, "Phrase Templates for BLS Data: Identifying Common Patterns in Information Requests" (research contract)

Principal Investigator: Stephanie W. Haas

Total: \$14,725

Period: March 2001 – February 2002

Bureau of Labor Statistics, "Terminology Crosswalks for LABSTAT" (research contract)

Principal Investigator: Stephanie W. Haas

Total: \$18,560

Period: February 2000 – January 2001

James A. Baker III for Public Policy, Rice University, "Presidential Appointments Project"

Principal Investigator: Stephanie W. Haas

Total: \$9,003

Period: September 1999 – January 2000

Pew Charitable Trusts, "White House Transition Project: Presidential Appointment Program"

Principal Investigator: Martha J. Kumar

Total: \$176,010 (Haas, 15% effort)

Period: February 1999 – January 2001

Bureau of Labor Statistics, "Investigation into the Requirements and Structure of a Knowledge Organization for BLS Published Information" (research contract)

Principal Investigator: Stephanie W. Haas

Total: \$22,680

Period: September 1998 – August 1999

University of North Carolina at Chapel Hill Instructional Technology Award, "Evaluation of an Internet Multimedia Studio"

Principal Investigator: Bert J. Dempsey; Co-PIs: Stephanie W. Haas, Diane Sonnenwald, Helen R. Tibbo

Total: \$58,817

Period: Spring 1997

University of North Carolina at Chapel Hill Junior Faculty Development Award (IBM Fund Award), "The Use of Words and Word Senses in Sublanguages and Specific Text Formats"

Principal Investigator: Stephanie W. Haas

Total \$3,000

Period: October 1990 – September 1991

University of North Carolina at Chapel Hill Research Council, "The Influence of Sublanguages and Text Formats on the Use of Words and Word Senses".

Principal Investigator: Stephanie W. Haas

Total: \$1,405

Period: November 1990 – October 1991

REFEREED ARTICLES, PROCEEDINGS PAPERS, AND CHAPTERS

Travers, D. A., Haas, S. W., Waller, A. E., Schwartz, T. A., Mostafa, J., Best, N. C., Crouch J. (2013). Implementation of Emergency Medical Text Classifier for syndromic surveillance. *Proceedings of the American Medical Informatics Annual Symposium*, 1365-74.

Samoff, E., Waller, A., Fleischauer, A., Ising, A., Davis, M. K., Park, M., Haas, S. W., DiBiase, L., MacDonald, P. (2012). Integration of syndromic surveillance data into public health practice at state and local levels in North Carolina. *Public Health Reports*, 127(3), 310-317.

Rosso, M. A. & Haas, S. W. (2010). Identification of Web Genres by User Warrant. In *Genre on the Web: Computational Models and Empirical Studies*. Mehler, A., Sharoff, S., Rehm, G. & Santini, M. (ed.) Springer.

Irvine, A. K., Haas, S. W., & Sullivan, T. (2008) TN-TIES: A system for extracting temporal information from Emergency Department triage notes. *Proceedings of the American Medical Informatics Association Annual Symposium*, 328-32.

Sullivan, T., Irvine, A., & Haas, S. W. (2008). It's all relative: Usage of relative temporal expressions in triage notes. *Proceedings of the 2008 Annual Meeting of the American Society for Information Science and Technology*.

Haas, S. W., Travers, D. A., Tintinalli, J. E., Pollock, D., Waller, A., Barthell, E., et al. (2008). Towards Vocabulary Control for Chief Complaint. *Academic Emergency Medicine*, 15(5), 476-482.

Travers, D. A. & Haas, S. W. (2006). Unified Medical Language System Coverage of Emergency-medicine Chief Complaints. *Academic Emergency Medicine*, 13(12), 1319-1323.

Marchionini, G., Haas, S. W., Zhang, J. & Elsas, J. (2005). Accessing government statistical information. *Computer*, 38(12), 52-61.

- Brown, R. T., Wilbur, J., Haas, S. W. & Cao, L. (2005). GovStat Statistical Interactive Glossary: Two studies of effectiveness and control. *Proceedings of the 2005 Annual Meeting of the American Society for Information Science and Technology*.
- Travers, D. A. & Haas, S. W. (2004). Evaluation of Emergency Medical Text Processor, a system for cleaning chief complaint text data. *Academic Emergency Medicine*, 11(11), 1170-1176.
- Haas, S. W. & Travers, D. A. (2004). Issues in the development of a thesaurus for patients' chief complaints in the hospital emergency department. *Proceedings of the 2004 Annual Meeting of the American Society for Information Science and Technology*, 411-417.
- Hert, C. A., Denn, S. & Haas, S. W. (2004). The role of metadata in the statistical knowledge network: An emerging research agenda. *Social Science Computer Review*, 22(1), 92-99.
- Travers, D. A. & Haas, S. W. (2003). Using nurses' natural language entries to build a concept-oriented terminology for patients' chief complaints in the emergency department. *Journal of Biomedical Informatics*, 36(4-5), 260-270.
- Denn, S., Haas, S. W. & Hert, C. A. (2003). Statistical metadata needs during integration tasks. In *DC-2003: Proceedings of the International DCMI Metadata Conference and Workshop*, 81-90. http://www.siderean.com/dc2003/301_Paper50.pdf
- Travers, D. A., Waller, A., Haas, S. W., Lober, W. B. & Beard, C. (2003). Emergency department data for bioterrorism surveillance: Electronic data availability, timeliness, sources and standards. *Proceedings of the American Medical Informatics Association 2003*, 664-668.
- Travers, D. A., Haas, S. W., Waller, A. E. & Tintinalli, J. E. (2003). Diagnosis clusters for Emergency Medicine. *Academic Emergency Medicine* 10(12), 1337-1344.
- Haas, S. W., Pattuelli, M. C., & Brown, R. T. (2003). Understanding statistical concepts and terms in context: The GovStat Ontology and the Statistical Interactive Glossary. *Proceedings of the Annual Meeting of the American Society for Information Science and Technology*, 193-199.
- Marchionini, G., Haas, S. W., Plaisant, C., Shneiderman, B. & Hert, C. (2003). Toward a Statistical Knowledge Network. *Proceedings of the National Conference on Digital Government Research, dg.o2003*. Digital Government Research Center, 27-31.
- Hert, C. A. & Haas, S. W. (2003). Supporting end-users of statistical information: The role of statistical metadata in the Statistical Knowledge Network. *Proceedings of the National Conference on Digital Government Research, dg.o2003*. Digital Government Research Center, 127-130.
- Haas, S. W. (2003). Improving the search environment: Informed decision making in the search for statistical information. *Journal of the American Society for Information Science and Technology*, 54(8), 782-797.
- Marchionini, G., Levi, M. & Haas, S. W. (2002). Co-evolution of research and practice: The BLS and FedStats case. *Proceedings of the National Conference for Digital Government Research*, 9-16.
- Haas, S. W. & Hert, C. A. (2002). Finding information at the U. S. Bureau of Labor Statistics: Overcoming the barriers of scope, concept and language mismatch. *Terminology*, 8(1), 31-57.

- Haas, S. W., Travers, D. A., Waller, A. E., Hilligoss, B., Cahill, M. & Pearce, P. F. (2001). Defining clinical similarity among ICD-9-CM diagnosis codes: Diagnosis cluster schemes. *Proceedings of the 12th American Society for Information Science & Technology SIG/CR Classification Workshop*, 67-81.
- Meho, L. I. & Haas, S. W. (2001). Information-seeking behavior and use of social science faculty studying stateless nations: a case study. *Library and Information Science Research*, 23(1), 5-25.
- Haas, S. W. & Hert, C. A. (2000). Terminology development and organization in multi-community environments: The case of statistical information. *Proceedings of the 11th American Society for Information Science & Technology SIG/CR Classification Workshop*, 51-72.
- Haas, S. W. (2000). The role of knowledge representation in managing statistical information. *Proceedings of The Second International Conference of Establishment Surveys (ICES II)*. Alexandria, VA: American Statistical Association, 961-970.
- Haas, S. W. & Grams, E. S. (2000). Readers, authors, and page structure: A discussion of four questions arising from a content analysis of Web pages. *Journal of the American Society for Information Science*, 51(2), 181-192.
- Haas, S. W. & Grams, E. S. (1998). A link taxonomy for Web pages. *Proceedings of the 61st Annual Meeting of the American Society for Information Science*, 485-495.
- Haas, S. W. & Grams, E. S. (1998). Page and link classifications: Connecting diverse resources. *Proceedings of Digital Libraries '98 – Third ACM Conference on Digital Libraries*, 99-107.
- Haas, S. W. (1997). Disciplinary variation in automatic sublanguage term identification. *Journal of the American Society for Information Science*, 48(1), 67-79.
- Haas, S. W. (1996). Natural Language Processing: Toward Large-Scale, Robust Systems. In Williams, M. (Ed.) *Annual Review of Information Science and Technology*, Vol. 31, 83-119.
- Haas, S. W., Sugarman, J., & Tibbo, H. R. (1996). A text filter for the automatic identification of empirical articles. *Journal of the American Society for Information Science*, 47(2), 167-169.
- Haas, S. W. (1995). Domain terminology patterns in different disciplines: Evidence from abstracts. *Proceedings of the Fourth Annual Symposium on Document Analysis and Information Retrieval*, 137-146.
- Losee, R. M., Jr. & Haas, S. W. (1995). Sublanguage terms: Dictionaries, usage, and automatic classification. *Journal of the American Society for Information Science*, 46(7), 519-529.
- Haas, S. W. (1995). Quotations in scholarly text: Converting existing documents to hypertext. *Computers and the Humanities*, 28(3), 165-175.
- Haas, S. W. & Losee, R. M., Jr. (1994). Looking in text windows: their size and composition. *Information Processing & Management*, 30(5), 619-629.
- Haas, S. W. (1993). Incomplete sentence quotations in books and journals. *Journal of the American Society for Information Science*, 44(7), 398-405.
- Haas, S. W. & He, S. (1993). Toward the automatic identification of sublanguage vocabulary. *Information Processing & Management*, 29(6), 721-732.
- Haas, S. W. (1992). Covering the vocabulary of technical abstracts using standard and specialized dictionaries. *Journal of Information Science*, 18, 363-373.

Haas, S. W. (1991). Unknown words: Is the choice of dictionary important in text retrieval? *Notes from the American Association for Artificial Intelligence Workshop on Natural Language Text Retrieval*. 4 pages.

Haas, S. W. (1991). Sublanguage analysis using the Case Hierarchy. *Proceedings of the 54th Annual Meeting of the American Society for Information Science*, 196-202.

Haas, S. W. (1991). Improving the coverage of technical vocabulary in information retrieval documents using specialized dictionaries. *ASIS Workshop on Language and Information Processing*, 1-10.

Haas, S. W. (1990). A feasibility study of the Case Hierarchy model for the construction and porting of natural language interfaces. *Information Processing & Management*, 26(5), 615-628.

Metzler, D. P., Haas, S. W., Cosic, C. L. & Weise, C. A. (1990). Conjunction, ellipsis, and other discontinuous constituents in the Constituent Object Parser. *Information Processing & Management*, 26(1), 53-71.

Haas, S. W. & Metzler, D. P. (1989). The flexibility of case grammar representations: A porting procedure for natural language interfaces. *International Journal of Man-Machine Studies*, 31, 535-556.

Metzler, D. P. & Haas, S. W. (1989). The Constituent Object Parser: Syntactic structure matching for information retrieval. *ACM Transactions on Office Information Systems*, 7(3), 292-316. Short version in *Proceedings of the Twelfth Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, 117-126. Selected as one of the six Best Papers of SIGIR '89.

Metzler, D. P. & Haas, S. W. (1989). Constituent Object Parsing and the detection and diagnosis of writing errors. *Proceedings of the 52nd Annual Meeting of the American Society for Information Science*, 142-146.

Metzler, D. P. & Haas, S. W. (1989). A syntactic filter for improving information retrieval precision. *Proceedings of the 52nd Annual Meeting of the American Society for Information Science*, 24-27.

Metzler, D. P., Haas, S. W., Cosic, C. L. & Wheeler, L. (1989). Constituent object parsing for information retrieval and similar text processing problems. *Journal of the American Society for Information Science*, 40(6), 398-423.

Haas, S. W. & Metzler, D. P. (1988). Case grammar interpretation and the portability of natural language interfaces. *Proceedings of the Colloquia of the Third International Symposium on Methodologies for Intelligent Systems*, 3-12.

Haas, S. W. & Metzler, D. P. (1988). A flexible approach to case grammar and the portability of natural language interfaces. *Proceedings of the Third Annual Rocky Mountain Conference on Artificial Intelligence*, 224-232.

REFEREED ABSTRACTS, POSTERS, PRESENTATIONS, AND DEMONSTRATIONS

Mahalingam, D., Mostafa, J., Travers, D., Haas, SW, Waller, A. (2012). Automated Syndrome Classification using Early Phase Emergency Department Data. *ACM SIGHIT International Health Informatics Symposium* (poster).

Mahalingam, D., Medlin, R., Travers, D., Haas, SW. (2011). Temporal Information Extractor: Identifying Symptom Onset Date from Emergency Department Notes. *AMIA 2011 Annual Symposium*.

Bevc, CA, Christopherson, L., Samoff, E., Haas SW. (2011). Understanding and comparing patterns of communication in H1N1: Applying social network analysis. *Academy Health 2011 Annual Research Meeting*, June 14-15, Seattle, WA. (poster).

Samoff, E., Ising, A., Waller, A., Vavalle, E., Davis, M., Park, M., Haas, SW, DiBiase, L, MacDonald, P. (2010). Access to and use of syndromic surveillance data at the local health department level. *International Society for Disease Surveillance Ninth Annual Conference*, December 1-2, 2010, Park City, UT. (poster, first prize).

Travers, D., Haas, S. W., Waller, A., Crouch, J., Mostafa, J., Schwartz, T. (2010). Identifying evidence of fever in emergency department text. *AMIA 2010 Annual Symposium*, November 13-17, 2010, Washington, D.C. (poster)

Haas, S. W., Travers, D., Mahalingam, D., Crouch, J., Mostafa, J., Waller, A. (2010). Burning up: Finding fever expressions in triage notes. *Proceedings of the 2010 Annual Meeting of the American Society for Information Science and Technology*, October 22-27, 2010, Pittsburgh, PA. (poster)

Samoff, E., Soeters, H., Park, M., DiBiase, L., Ising, A., Davis, M., Fleischauer, A., Waller, A., Haas, S. W., MacDonald, P. (2010). The current and future management of surveillance data – how do we keep up? *North Carolina Public Health Association Annual Educational Conference*, October 27-29, 2010, Wilmington, NC. (poster)

Samoff, E., Davis, M., Fleischauer, A., Park, M., Ising, A., Haas, S. W., MacDonald, P., Waller, A. (2010). Increasing surveillance effectiveness to support the public health system. *Public Health Systems and Service Research 2010 Keeneland Conference*, April 20-22, 2010, Lexington, KY. (poster)

Samoff, E., Fleischauer, A., Moore, A., Park, M., Deyneka, L., Davis, M., Haas, S., MacDonald, P., Waller, A. (2009). Use of syndromic surveillance for outbreak detection and management, North Carolina 2008-09. *International Society for Disease Surveillance Eighth Annual Conference*, December 3-4, 2009, Miami, FL. (presentation)

Samoff, E., Park, M., Davis, M., Fleischauer, A., Haas, S., Ising, A., MacDonald, P., Waller, A. (2009). How can we make NC DETECT more useful to North Carolina Public Health Agencies? *North Carolina Public Health Association Annual Educational Conference*, October 1, 2009, Asheville, NC. (poster)

Samoff, E., Ising, A., Haas, S. Li, M., MacDonald, P., Waller, A. (2009) Systems improvements to facilitate situational awareness, event detection, and communication in early detection surveillance. *Public Health Systems and Service Research 2009 Keeneland Conference*, April 7-9, 2009, Lexington, KY. (presentation)

Phillips, T. G., Haas, S. W., Tintinalli, J. E., Travers, D. A. & Waller, A. E. (2008). In search of a controlled vocabulary for Emergency Department chief complaint: A comparison of five published chief complaint lists. *International Society for Disease Surveillance Seventh Annual Conference*, December 3-5, 2008, Raleigh, NC. (poster)

Pomerantz, J., Haas, S. W., & Hecht, E., (2008). Identifying reusable resources in digital reference answers. *Proceedings of the 2008 Annual Meeting of the American Society for Information Science and Technology*. (poster)

- Haas, S. W., Travers, D. A., Waller, A. E., & Kramer-Duffield, J. (2007). What is an event? Domain constraints for temporal analysis of chief complaints and triage notes. *Proceedings of the 2007 Annual Meeting of the American Society for Information Science and Technology*. (poster)
- Marchionini, G., Haas, S. W., Shneiderman, B., Plaisant, C., & Hert, C. (2005). Project highlight: Toward a Statistical Knowledge Network – 2004-5. *Proceedings of the National Conference on Digital Government Research, dg.o2005*, 177-178. (presentation)
- Haas, S. W., Brown, R. T., Cao, L & Wilbur, J.D. (2005). Evaluation of the GovStat Statistical Interactive Glossary: Implications for Just-in-Time Help. *Proceedings of the National Conference on Digital Government Research, dg.o2005*, 291-292. (poster)
- Travers, D. A., Haas, S. W., Waller A. E., Reeder, T. & Spicer, S. (2005). Evaluation of controlled terminologies for emergency department chief complaint documentation. *Southeastern Regional Society for Academic Emergency Medicine Meeting*. (poster)
Also presented at *Emergency Nurses Association National Meeting*. (poster)
- Beard, C., Waller, A., Haas, S. W. & Travers, D. A. (2004). Electronic Emergency Department Data for Bioterrorism Surveillance: Regional Assessment of Data Availability and a Sentinel Hospital Concept. *2004 Medinfo Symposium*. (poster)
- Travers, D. A. & Haas, S. W. (2004). Validation of a New Tool for Extracting Terms from Clinical Text: Emergency Medical Text Processor. *2004 Medinfo Symposium*. (poster)
- Marchionini, G., Haas, S. W., Shneiderman, B., Plaisant, C. & Hert, C. A. (2004). Project Highlight: Toward the Statistical Knowledge Network. *Proceedings of the National Conference on Digital Government Research, dg.o2004*, 93-94. (presentation)
- Wilbur, J. & Haas, S. W. (2004). The GovStat Content Delivery Template (CDT) for creating explanatory animations. *Proceedings of the National Conference on Digital Government Research, dg.o2004*, 317-318. (demonstration)
- Travers, D. A. & Haas, S. W. (2004). Evaluation of Emergency Medical Text Processor, a system for cleaning chief complaint textual data. *Academic Emergency Medicine*, 11(5), 478. (poster)
- Brown, R. T., Wilbur, J., Haas, S. W. & Pattuelli, M. C. (2003). The GovStat Statistical Interactive Glossary (SIG). *Proceedings of the National Conference on Digital Government Research, dg.o2003*. Digital Government Research Center, 322-323. (poster)
- Pattuelli, M. C., Haas, S. W., Brown, R. T. & Wilbur, J. (2003). The GovStat ontology. *Proceedings of the National Conference on Digital Government Research, dg.o2003*. Digital Government Research Center, 355-358. (poster)
- Haas, S.W., Travers, D.A., Waller, A.E. & Tintinalli, J. E. (2002). ICD-9 clusters for emergency medicine. *Academic Emergency Medicine*, 9(5), 508. (poster)
- Haas, S. W., Travers, D. A., Waller, A. E. & Tintinalli, J. E. (2002). *ICD-9 Clusters for Emergency Medicine*. Seventh Annual Emergency Medicine Research Forum, Department of Emergency Medicine, University of North Carolina at Chapel Hill, April 17, 2002. (poster) Recipient of “Best Overall Poster” Award.
- Travers, D. A., Haas, S. W. & Downs, S. M. (2001). *Multiple uses of the oblique stroke (slash, “/”) in Emergency Department text: Development of grammar rules for natural language processing*. American Medical Informatics Association Annual Symposium, November 5, 2001, Washington, D.C. (poster)

Haas, S. W., Sugarman, J., & Tibbo, H. R. (1995). *The Automatic Identification of Empirical Research Articles*. Third Annual Cochrane Colloquium, October 4-8, 1995, Oslo, Norway. (poster)

OTHER PUBLICATIONS

Bevc, CA, Christopherson, L, Haas, SW. (2011). Addressing Public Health Issues with Social Network Analysis. NC PERRC Research Brief. Available from http://cphp.sph.unc.edu/ncperrc/research/social_network_analysis.pdf

Haas, S. W., Hert, C. A. & Funke, S. (2003). Sharing the blame: Understanding retrieval performance in terms of language systems and information availability. *IDC Bulletin*, April.

Haas, S. W. (2001). *From Words to Concepts to Queries: Helping Users Find Series and Variables to Satisfy Their Information Needs*. Final report for the Bureau of Labor Statistics. <http://ils.unc.edu/~stephani/bls/fin-rept-01.pdf> (technical report)

Haas, S. W. (2000). *A Terminology Crosswalk for LABSTAT: Mapping General Language Words and Phrases to BLS Terms*. Final report for the Bureau of Labor Statistics contract, "Terminology Crosswalks for LABSTAT". <http://ils.unc.edu/~stephani/bls/fin-rept-00.pdf> (technical report)

Haas, S. W. (1999). *Knowledge Representation, Concepts, and Terminology: Toward a Metadata Registry for the Bureau of Labor Statistics*. Final report for the Bureau of Labor Statistics contract, "Investigation into the Requirements and Structure of a Knowledge Organization for BLS Published Information". <http://ils.unc.edu/~stephani/bls/fin-rept-99.pdf> (technical report)

Haas, S. W. (1996). Sublanguages and the Automatic Identification of Sublanguage Terms. In Kent, A. (Ed.) *Encyclopedia of Library and Information Science*, Vol. 58, Suppl. 21. New York: Marcel Dekker, Inc. 302-310.

Haas, S. W. (1996). Review of L. Frazier & C. Clifton, Jr. (1996). *Construal*. Cambridge, MA: MIT Press. *Information Processing & Management*, 32(6), 771-772. (book review)

Haas, S. W. (1996). Review of Scott R. Turner (1994). *The Creative Process: A Computer Model of Storytelling and Creativity*. Hillsdale, NJ: Lawrence Erlbaum Associates. *Journal of the American Society for Information Science*, 47(3), 252-254. (book review)

Haas, S. W. (1993). Review of Martha E. Williams (Ed.) (1991 & 1992). *Annual Review of Information Science and Technology*, Vol. 26 and 27. Medford, NJ: Learned Information. *Library Quarterly*, 63(4), 536-538. (book review)

Haas, S. W. (1993). Review of Paul S. Jacobs (Ed.) (1992). *Text-Based Intelligent Systems: Current Research and Practice in Information Extraction and Retrieval*. Hillsdale, NJ: Lawrence Erlbaum Associates, Inc. *Computational Linguistics*, 19(1), 204-206. (book review)

Metzler, D. P., Haas, S. W. & Cosic, C. L. (1989). *The Constituent Object Parser Technical Manual*. Technical Report IS89004. University of Pittsburgh, Department of Information Science. (technical report).

Metzler, D. P., Haas, S. W. & Cosic, C. L. (1988). *The Constituent Object Parser Users Manual*. Technical Report IS88014. University of Pittsburgh, Department of Information Science. (technical report)

INVITED PRESENTATIONS AND SPEECHES

Haas, S. W. (2012). *The Partnership: Combining Experts & Machine Learning in Classification Tasks*. Duke/UNC Joint Health Informatics Seminar Series, December 5, 2012, Chapel Hill, NC.

Haas, S. W. (2012) *What Every Public Health Practitioner Should Know About Systems Analysis, or Systems Analysis in 45 Minutes*. Learning, Sharing, Networking Public Health Informatics (PHI), September 26, 2012, Chapel Hill, NC.

Haas, SW, Travers, DT, Waller, A. (2012). *Prerequisite for Clinical Decision Support: Extracting Usable Information from the Electronic Health Record, The Case of Inconsistency*. Natural Language Processing: State of the Art, Future Directions and Applications for Enhancing Clinical Decision-Making. NLM/NIBIB workshop, April 23-24, 2012, Bethesda, MD. (poster).

Haas, S. W. (2012). *NLP Research*. RTI CAHIT Webinar, March 26, 2012.

Haas, S. W. (2011) *Social Network Analysis of Public Health Staff during H1N1*. UNC-Duke Joint Informatics Seminar Series, March 16, 2011.

Haas, S. W. (2010). *Contextual Effects in Automatic Classification: Syndromic Surveillance in North Carolina*. Bureau of Labor Statistics AutoCoding Workshop, May 25-26, 2010.

Haas, S. W. (2009). *When Did Last Night End and This Morning Begin? Expressions of Time in Triage Notes*. North Carolina Nursing Council of Nursing Informatics, August 27, 2009.

Haas, S. W. (2009). *When Did Last Night End and This Morning Begin? Expressions of Time in Triage Notes*, Mary Junck Research Colloquium Series, School of Journalism and Mass Communication, UNC-CH, April 23, 2009.

Haas, S. W. (2006). *Taming the Emergency Department Chief Complaint: Transforming Unstructured Data Elements for Secondary Uses*. Graduate School of Library and Information Science, University of Illinois at Champaign-Urbana, April 17, 2006.

Haas, S. W. (2004). *Can I Help You? Providing Help to the "Amazoogler" Generation*. North Carolina State University Library Association, October 11, 2004.

Haas, S. W. & Travers, D. A. (2002). *ICEM: ICD-9 Clusters for Emergency Medicine*. UNC-Duke Medical Informatics Seminar, February 6, 2002.

Haas, S. W. (2000). *Terminology for Statistics: How Can End Users Connect?* Open Forum on Metadata Registries, January 17 – 21, 2000, Santa Fe, NM.

Haas, S. W. (1999). *"What Everyone Calls It": Mapping Users' Words and Terminologies*. Open Forum on Metadata Registries, February 16 – 19, 1999, Washington, D.C.

Haas, S. W. (1994). *Lexical Issues in Natural Language Processing*. Tutorial on Natural Language Processing, 57th Annual Meeting of the American Society for Information Science, October, 1994.

PRESENTATIONS AND PANELS

Rosso, M. A. & Haas, S. W. (2007). *Towards the Use of Genre to Improve Search in Digital Libraries: Where Do We Go from Here?* Panel session organized (with Rosso) and moderated at the Annual Meeting of the American Society for Information Science & Technology, October 2007, Milwaukee, WI.

Haas, S. W., Travers, D. A., & Waller, A. (2006) *Chief Complaint Symposium. Symposium*. Organized and moderated in cooperation with The International Society for Disease Surveillance, October 18, 2006, Baltimore, MD.

Haas, S. W., Travers, D. A., Tintinalli, J. E., & Waller, A. (2007). *Reporting on the Chief Complaint Symposium*. Panel session organized and presented at the Society for Academic Emergency Medicine Annual Meeting, May 17, 2007, Chicago, IL.

Haas, S. W. (2005). *Envisioning Help Resources for the Future Information Ecology: Toward an Enriched Sense of Help*. Panel session organized and moderated at the Annual Meeting of the American Society for Information Science, October, 2005.

Haas, S. W. (2003). *What is Context? Providing Vocabulary Help in the Context of Documents, Tasks and Organizations*. Panel presentation, 2003 Annual Meeting of the American Society for Information Science and Technology, October 20, 2003, Long Beach, CA.

Haas, S. W. (2001). *Mapping User Concepts and Words to BLS Concepts and Terms*. Annual Meeting of the American Society for Information Science & Technology, November 5, 2001, Washington, D.C.

Haas, S. W. (1996). *Natural Language Processing: Toward Large-Scale, Robust Systems*. 1996 Annual Meeting of the American Society for Information Science, October, 1996.

Haas, S. W. (1993). *Research Using Large Text Corpora*. Panel session organized and moderated at the 56th Annual Meeting of the American Society for Information Science, October, 1993.

Haas, S. W. (1993). *Introduction to SGML and the TEI*. Panel session organized and moderated at the 56th Annual Meeting of the American Society for Information Science, October, 1993.

Haas, S. W. (1993). *Multimedia Approaches to Full Text*. Panel session organized and moderated at the American Society for Information Science Midyear Meeting, May, 1993.

PROFESSIONAL ASSOCIATIONS

American Society for Information Science & Technology

- 2013 Thomson Reuters doctoral dissertation proposal award jury, member
- 2012 Student design competition, chair
- 2011 Outstanding information science teacher award jury, chair
- 2011 Student design competition, chair
- 2010 Outstanding information science teacher award jury, member
- 2009 Pratt Severn student research paper jury, member
- 2000 Doctoral Forum mentor
- 1998 ASIS Outstanding Information Science Teacher of the Year Jury, member
- 1995 Best JASIS Paper Jury, member
- 1993 ASIS Research Award Jury, member
- 1993 Best JASIS Paper Jury, member
- 1993 Chair, SIG ALP
- 1992 Chair-Elect, SIG ALP

Association for Computational Linguistics

Association for Computing Machinery